

**CONFIDENTIAL**

25X1

(c) NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

REFERENCE:



ATTACHMENT TO M-6861  
9 JUNE 1969  
PAGE 1 OF 3

25X1

**SA-2 REACTIONS TO RECONNAISSANCE AIRCRAFT  
NORTH VIETNAM**

1. SIGNIFICANCE:

THIS BRIEFING BOARD PROVIDES SOME RARE TECHNICAL OBSERVATIONS OF THE SA-2 MISSILE IN FLIGHT AND AT THE POINT OF DETONATION.


2. LOCATION:

HAIPHONG AREA

3. BACKGROUND:

THERE HAVE BEEN MORE THAN 5000 SA-2 FIRINGS IN NORTH VIETNAM ACHIEVING LIMITED SUCCESS. BOTH MISSILES IN FLIGHT AND DETONATING HAVE BEEN SEEN BEFORE BUT NEVER ON PHOTOGRAPHY OF THE INTERPRETABILITY SHOWN ON THIS BOARD.

4. MISSION READOUT:

 PHOTOGRAPHED AN SA-2 MISSILE IN FLIGHT, 6.9 NM SOUTHWEST OF HAIPHONG. THE MISSILE IS A MOD I/II VERSION AS IDENTIFIED BY THE LOCATION OF THE FUSING ANTENNAS. THE NOSE PROBE OR PITOT TUBE IS ALSO CLEARLY VISIBLE. THE NEXT FRAME OF PHOTOGRAPHY TAKEN A

25X1

These notes have been prepared for briefing purposes only and should not be used for detailed analytical work. Their use should be restricted to the particular briefing boards (s) they were prepared for and must be considered valid only for the reporting period as indicated by the date of issue. For information concerning these notes contact Chief, Imagery Exploitation Group NPIC.

GROUP 1 EXCLUDED FROM  
AUTOMATIC DOWNGRADING  
AND DECLASSIFICATION

**CONFIDENTIAL**

25X1

**CONFIDENTIAL**

[REDACTED]  
(c) NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

REFERENCE :



ATTACHMENT TO  
9 JUNE 1969  
PAGE 2 OF 3

FRACTION OF A SECOND LATER SHOWS THE SHADOW OF THE MISSILE DETONATION ON THE GROUND.

[REDACTED] PHOTOGRAPHED AN SA-2 WARHEAD ALMOST AT THE PRECISE INSTANT OF DETONATION. THIS RARE PHOTOGRAPH PROVIDED CLOSE OBSERVATION OF THE RESULTANT DONUT-SHAPED BLAST RING.

[REDACTED] SHOWS THE SHOOTDOWN OF AN RF-4C AIRCRAFT BY AN SA-2 MISSILE OVER HANOI. THIS IS THE TYPE BURST NORMALLY SEEN ON PHOTOGRAPHY.

5. REMARKS:

THE PHOTOGRAPHY WHICH SHOWS THE MISSILE IN FLIGHT GIVES THE FIRST CLEAR LOOK AT THE PITOT TUBE ON THE SA-2 MOD I/II MISSILE. THIS TUBE ONLY EXTENDS WHEN THE MISSILE IS IN FLIGHT WHEREAS ON THE MOD III AND IV VERSION IT IS PERMANENTLY EXTENDED. THE MISSILE WAS AT A DISTANCE OF 135 FEET FROM THE DRONE WHEN IT WAS PHOTOGRAPHED AND DETONATED AN INSTANT LATER 133 FEET FROM AND SLIGHTLY TO THE REAR OF THE DRONE. APPARENTLY THE SHAPE OF THE CHARGE IN THE WARHEAD ALLOWED THE DRONE TO ESCAPE DESTRUCTION.

THE BLAST PATTERN OBSERVED IS THE FIRST TIME A COMPLETE PATTERN AT THE INSTANT OF DETONATION HAS BEEN OBSERVED ALTHOUGH A SMALL PORTION OF THIS PATTERN WAS OBSERVED IN [REDACTED]

These notes have been prepared for briefing purposes only and should not be used for detailed analytical work. Their use should be restricted to the particular briefing boards (s) they were prepared for and must be considered valid only for the reporting period as indicated by the date of issue. For information concerning these notes contact Chief, Imagery Exploitation Group NPIC.

**CONFIDENTIAL**

**CONFIDENTIAL**

[REDACTED]  
(c) NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

REFERENCE:



ATTACHMENT TO M-6861  
9 JUNE 1969  
PAGE 3 OF 3

THE DRONE, WHEN FIRED UPON, WAS TRAVELING AT APPROXIMATELY 480 KNOTS, AT AN ALTITUDE OF 1,130 FEET. THE MISSILE WHEN PHOTOGRAPHED [REDACTED], WAS TRAVELING AT APPROXIMATELY 1,800 FT/SEC (1,080 KNOTS) AT AN ALTITUDE OF 1,140 FEET AND IN THE OPPOSITE DIRECTION OF THE DRONE.

MISSION:



MAP REFERENCE: AMS SERIES L7014, SHEET 6350 IV, SCALE 1:50,000

These notes have been prepared for briefing purposes only and should not be used for detailed analytical work. Their use should be restricted to the particular briefing boards(s) they were prepared for and must be considered valid only for the reporting period as indicated by the date of issue. For information concerning these notes contact Chief, Imagery Exploitation Group NPIC.

**CONFIDENTIAL**

**CONFIDENTIAL**



NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

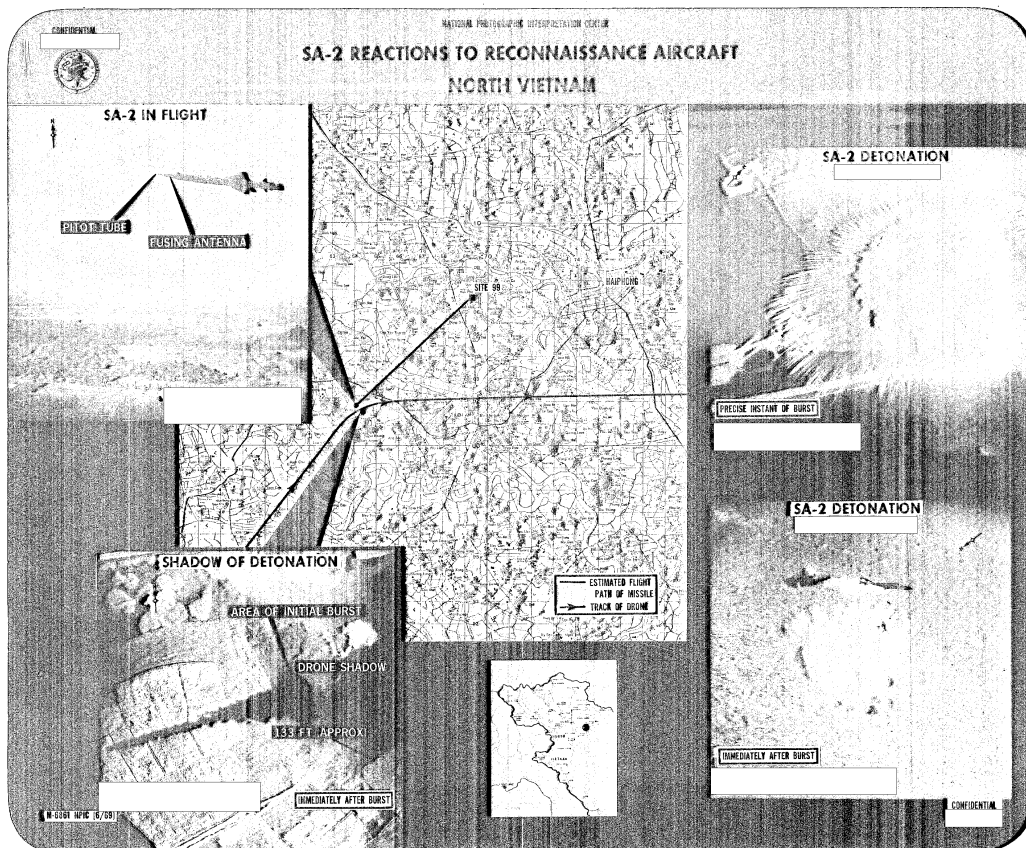
**M 6861 /69**

NPIC CONTROL NUMBER

REPRODUCTION OF THIS DOCUMENT IN WHOLE OR IN PART IS PROHIBITED EXCEPT WITH THE PERMISSION OF THE OFFICE OF ORIGIN.

NATIONAL SUBSTANTIVE  
BRIEFING AIDS  
COLLECTION

RETURN TO:  
BRIEFING AIDS UNIT  
ROOM 4S-447A



25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1